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Data Compression Conference, 1999. Proceedings. DCC '99 , 29-31 March 1999

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*Robertson, M.A.; Stevenson, R.L.;*

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Circuits and Systems, 1990., IEEE International Symposium on , 1-3 May 1990  
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## Blocking artifact reduction of DCT coded image sequences using a visually adaptive postprocessing

Derviaux, C. Coudoux, F.-X. Gazalet, M.G. Corlay, P.

Dept. O.A.E., Valenciennes Univ., France;

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Meeting Date: 09/16/1996 - 09/19/1996

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Inspec Accession Number: 5572273

### Abstract:

The blocking effect is known to be the major degradation in block based video **compression** techniques. In this paper, we describe an adaptive postprocess algorithm for the reduction of blocking effect in video coded sequences. It is based on a visual model for the prediction of blockiness visibility. The postfiltering operates on a 3D adaptive **filter**. A space-variant spatial **filter** is first used to smooth block boundaries where the blocking effect is highly visible. It is followed by a compensated nonlinear filtering in the temporal domain. Experimental results are presented showing that the proposed algorithm can remove the blocking effect while keeping image sharpness.

### Index Terms:

adaptive filters data compression discrete cosine transforms image sequences suppression motion compensation multidimensional digital filters nonlinear filters methods spatial filters time-domain analysis transform coding video coding 3D filter DCT coded image sequences adaptive postprocessing algorithm block based compression techniques block boundaries blockiness visibility blocking artifact reduction

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